

# **GLOBAL IOT SUMMIT**

## **Call for Papers**

### **5G for Connected Things Workshop**

**Chair:**

Ridha Soua, University of Luxembourg, Luxembourg

**Scope and Motivation:**

With the promise of revolutionizing the way we live, work and manufacture, it is no surprise why the Internet of Things (IoT) has picked up the momentum in both industry and academia. IoT systems provide real-time applications without direct human interactions and contribute to the emergency of smart spaces (building, houses, offices, industrial factories, etc.). Gartner has predicted that there will be 25 billion connected devices, three for every person on the planet, by the end of 2020. With this increased connectivity around the world and continued miniaturization of computers and smart devices, IoT will generate huge volume of data that need to be analyzed to gain insight behind this big IoT data.

The forthcoming 5G networks is promising by not only increased data rates but also low-latency data communication for latency-critical IoT applications. 5G will enable massive IoT devices connected via a myriad of networks and critical machine type communications. While the massive IoT is more concerned about scalability deep coverage and energy efficiency, the latter requires ultra-low latency and extreme reliability. The anticipated high-traffic demands, low-latency and deterministic delivery requirements stemming from IoT and machine-to-machine (M2M) communications can be met only with radical changes in terms of architecture and communication solutions.

This workshop aims at favoring a multidisciplinary, cross-layer perspective to 5G and Internet of Things, bringing together researchers, developers, and practitioners from academia and industry. Topic calls for novel contributions, R&D results from industry and academic/industrial collaborations including, but not restricted to the following topics:

<ul style="list-style-type: none"> <li>• Deployment strategies in IoT: coverage and connectivity issues and challenges</li> <li>• IoT for smart manufacturing (industry 4.0) and smart spaces</li> <li>• IoT big data and predictive analysis</li> <li>• Innovative routing and scheduling protocols</li> <li>• New communications mediums for Low Power Wide Area Networks</li> <li>• Dynamic scheduling, power control, interference management, and QoS management in IoT networks</li> <li>• Software defined networking for IoT</li> <li>• Mobility, Localization and context-adaptive Internet of Things</li> <li>• Practical Perspectives on IoT in 5G Networks</li> <li>• NB-IoT</li> </ul>	<ul style="list-style-type: none"> <li>• Application of SDN, NFV, and Fog computing to IoT: architectures and implementations</li> <li>• Fog Caching techniques for IoT</li> <li>• Massive MTC (mMTC)</li> <li>• Web of Things</li> <li>• Messaging Technologies for the Industrial IoT (DDS, AMQP, MQTT, MQTT-SN, CoAP, etc)</li> <li>• Secure and privacy-preserving IoT communications</li> <li>• Blockchain technology for IoT</li> <li>• IoT standards platforms interworking</li> <li>• Experience and lessons learnt for standards based IoT large scale pilots/demonstrators</li> <li>• Interoperability methodologies for heterogeneous IoT</li> </ul>
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#### IMPORTANT DATES:

- **Paper submission:** February 16, 2018
- **Notification date:** March 31, 2018
- **Final paper due:** April 30, 2018

#### PAPER SUBMISSION GUIDELINES

Papers must be submitted through EDAS at the following link –

<https://edas.info/newPaper.php?c=24130&track=89112>

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